

HIMALSHA JAYAMAL

Electrical & Electronic Engineering Graduate | BEng (Hons) Candidate

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No. 32, Baduraliya Road, Agalawatta, 12200, Sri Lanka

PROFESSIONAL SUMMARY

Higher Diploma graduate in Electrical & Electronic Engineering with Distinction, currently pursuing a BEng (Hons) at the University of Sunderland. Completed six months of industrial training at Hayleys Fabric PLC. Seeking graduate or junior roles in electrical engineering, digital systems, embedded technology, industrial automation, or related technical fields.

EXPERIENCE

Electrical Engineering Intern

August 2025 – February 2026

Hayleys Fabric PLC, Neboda, Sri Lanka

- Supported installation, commissioning, wiring, sensor connections, calibration, VFD configuration, motor-control systems, instrumentation, pneumatics, and preventive maintenance within an industrial manufacturing environment.
- Analysed Stenter-machine data using Excel, contributing to a production-speed increase from 16 to 22 m/min and an approximately 5°C temperature reduction, and prepared MTTR/MTBF reports.

PROJECTS

Adaptive Cache Controller for a Custom 8-Bit Processor — In Progress

- Developing a simulation-based custom 8-bit processor and adaptive cache controller in SystemVerilog using Vivado XSim.
- Working with datapath design, control logic, instruction execution, memory behaviour, RTL simulation, testbench development, and structured verification.

Semantic-Aware SLAM Robot with Reinforcement Learning

- Contributed to a group final-year project using ROS 2, Gazebo, RTAB-Map, YOLO, and reinforcement-learning concepts to investigate autonomous navigation, semantic perception, localisation, and layered safety in simulation.

EDUCATION

BEng (Hons) Electrical & Electronic Engineering

January 2026 – Present

University of Sunderland

Higher Diploma in Electrical & Electronic Engineering

October 2023 – August 2025

Liverpool John Moores University · ICBT Campus

- Distinction and Academic Excellence Award

ADDITIONAL INFORMATION

- Technical Tools: SystemVerilog, Vivado XSim, PIC, Arduino, Embedded C/C++, MATLAB, Simulink, ROS 2, Gazebo, and Excel
- Industrial Exposure: PLCs, VFDs, motor-control circuits, instrumentation, pneumatics, maintenance, commissioning, and technical reporting
- Professional Skills: Problem-solving, analytical thinking, adaptability, teamwork, technical communication, and documentation.
- Languages: Sinhala — Native; English — Basic working proficiency
- References: Available on request